

In the Claims

Applicant has submitted a new complete claim set, with insertions and deletions in amended claims indicated by underlining and strikeouts (or double bracketing), respectively.

1. (Currently amended) A method for identifying a compound capable of binding to an active site of ribosome recycling factor (RRF) protein, comprising the step of:

a) employing a three-dimensional structure ~~of said protein as produced by a computer using atomic coordinates~~ of the conserved active site of RRF protein, which protein binds ribosomal RNA and recycles ribosomes, according to Table 8 to design or select said compound capable of binding to the conserved active site of the RRF protein, wherein the conserved active site comprises Arginine at positions 110, 129 and 132 according to Table 8.

2.-51. (Canceled)

52. (Currently amended) The method according to claim 1, wherein said compound capable of binding to the active site of the RRF protein is designed de novo.

53. (Currently amended) The method according to claim 1, wherein said compound capable of binding to the active site of the RRF protein is designed from a known compound capable of binding to the active site of the RRF protein.

54. (Currently amended) The method according to claim 1, further comprising the step of:
b) synthesizing said compound capable of binding to the active site of the RRF protein.

55. (Currently amended) The method according to claim 54, wherein said compound capable of binding to the active site of the RRF protein is designed de novo.

56. (Currently amended) The method according to claim 54, wherein said compound capable of binding to the active site of the RRF protein is designed from a known compound capable of binding to the active site of the RRF protein.

57. (Currently amended) The method according to claim 54, further comprising the step of:
- c) contacting said compound capable of binding to the active site of the RRF protein with said RRF protein in the presence of a substrate to determine the ability of said compound capable of binding to the active site of the RRF protein to bind the active site of said RRF protein.
58. (Currently amended) The method according to claim 57, wherein said compound capable of binding to the active site of the RRF protein is designed de novo.
59. (Currently amended) The method according to claim 57, wherein said compound capable of binding to the active site of the RRF protein is designed from a known compound capable of binding to the active site of the RRF protein.